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Patent Search 6312494 12/19/2007

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**Current session 19/12/2007**

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19/12/07 15\*04\*28

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Selected file: PLUSPAT

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For PlusPat Fact Sheet, Pricing and FAQ, see the Questel.Orbit website  
Citations and FI/F-term classification available for Japanese documents  
Last update of file: 2007/12/14 (YYYY/MM/DD) 2007-50/UP (last update)

Search statement 1

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**Query/Command : US6312494/PN****\*\* SS 1: Results 1**

Search statement 2

?

**Query/Command : PRT FULL NONSTOP LEGALALL**

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*1 / 1 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - US6312494 B1 20011106 [US6312494]  
**TI** - (B1) Arc segment magnet, ring magnet and method for producing such magnets  
**PA** - (B1) HITACHI METALS LTD (US)  
**PA0** - Hitachi Metals, Ltd., Tokyo [JP]

**IN** - (B1) ODA KAZUO (JP); TOKORO HISATO (JP); UCHIDA KIMIO (JP); MIKAMOTO TSUKASA (JP)  
**AP** - US61047600 20000705 [2000US-0610476]  
**PR** - JP19035199 19990705 [1999JP-0190351]  
JP32959099 19991119 [1999JP-0329590]  
**IC** - (B1) B22F-003/00  
**ICAA** - H01F-001/057 [2006-01 A - I R M EP]; H01F-041/02 [2006-01 A - I R M EP]  
**ICCA** - H01F-001/032 [2006 C - I R M EP]; H01F-041/02 [2006 C - I R M EP]  
**EC** - H01F-001/057B8C  
H01F-041/02B6  
**PCL** - ORIGINAL (O) : 075245000; CROSS-REFERENCE (X) : 148100000  
148108000 148301000 148302000 419029000 419033000 419036000  
419039000  
**DT** - Corresponding document  
**CT** - US5489343; US5648039; US5846449; US6159308; JP6322469 A; JP737716 A;  
JP757914 A; JP8130142 A  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**AB** - A thin arc segment magnet made of a rare earth sintered magnet substantially comprising 28-33 weight % of R and 0.8-1.5 weight % of B, the balance being substantially Fe, wherein R is at least one rare earth element including Y, and T is Fe or Fe and Co, which has an oxygen content of 0.3 weight % or less, a density of 7.56 g/cm<sup>3</sup> or more, a coercivity iH<sub>c</sub> of 1.1 MA/m (14 kOe) or more at room temperature, and an orientation Br/4 PI I<sub>max</sub> of 96% or more in an anisotropy-providing direction at room temperature can be produced by using a slurry mixture formed by introducing fine alloy powder of the above composition into a mixture liquid comprising 99.7-99.99 parts by weight of a mineral oil, a synthetic oil or a vegetable oil and 0.01-0.3 parts by weight of a nonionic surfactant and/or an anionic surfactant.  
**UP** - 2001-46

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1 / 1 LGST - ©EPO

**PN** - US6312494 B1 20011106 [US6312494]  
**AP** - US61047600 20000705 [2000US-0610476]  
**ACT** - 20001011 US/AS-A  
ASSIGNMENT  
OWNER: HITACHI METALS, LTD. 2-1, SHIBAURA 1-CHOME MINATO-;  
EFFECTIVE DATE: 20000925  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:TOKORO,  
HISATO;UCHIDA, KIMIO;ODA, KAZUO;AND  
OTHERS;REEL/FRAME:011261/0518  
  
20040113 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031105  
**UP** - 2004-30

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1/1 CRXX - ©CLAIMS/RRX

PN - 6,312,494 A 20011106 [US6312494]

PA - Hitachi Metals Ltd JP

ACT - 20031105 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040113

REISSUE REQUEST NUMBER: 10/701020

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1742

Reissue Patent Number:

Search statement 2

**Query/Command : FILE INPADOC**

LGST - Time in minutes : 0,03

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Estimated cost :	0.03 USD
Records displayed and billed :	1
Estimated cost :	0.70 USD
Cost estimated for the last database search :	0.73 USD
Estimated total session cost :	1.37 USD

CRXX - Time in minutes : 0,03

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.05 USD
Records displayed and billed :	1
Estimated cost :	6.00 USD
Cost estimated for the last database search :	6.05 USD
Estimated total session cost :	7.42 USD

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.02 USD
Cost estimated for the last database search :	0.02 USD
Estimated total session cost :	7.44 USD

PLUSPAT - Time in minutes : 0,26

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.75 USD
Records displayed and billed :	1
Estimated cost :	1.55 USD
Cost estimated for the last database search :	2.30 USD
Estimated total session cost :	9.74 USD

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 Citations and FI/F-term classification available for Japanese documents  
 Last update of file: 2007/12/14 (YYYY/MM/DD) 2007-50/UP (last update)

Search statement 2

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**Query/Command : FAM US6312494/PN**

1 Patent Groups

**\*\* SS 2: Results 5**

Search statement 3

?

**Query/Command : FAMSTATE NONSTOP**

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1 / 5 PLUSPAT - ©QUESTEL-ORBIT

**PN** - CN1283857 A 20010214 [CN1283857]  
**STG** - (A) Unexamined application  
**TI** - (A) Arc shape magnet, annular, magnet and its mfg method  
**PA** - (A) HITACHI METAL CO LTD (JP)  
**IN** - (A) HISATO TOKORO (JP); KIMIMINORU UCHIDA (JP); KAZUO ODA (JP)  
**IC** - (A) H01F-001/053 H01F-001/08 H01F-041/02  
**PN2** - CN1238866 C 20060125 [CN1238866C]  
**STG2** - (C) Granted patent  
**TI2** - (C) Arc shape magnet, annular, magnet and its mfg method  
**PA2** - (C) HITACHI METAL CO LTD (JP)  
**IN2** - (C) KAZUO TOKORO HISATO UCHIDA KIM (JP)  
**IC2** - (C) H01F-001/032 H01F-001/053 H01F-001/057 H01F-041/02  
**AP** - CN00126292 20000705 [2000CN-0126292]  
**PR** - JP19035199 19990705 [1999JP-0190351]  
 JP32959099 19991119 [1999JP-0329590]  
**ICAA** - H01F-001/053 [2006-01 A F I B H CN]; H01F-001/057 [2006-01 A - I R M EP];  
 H01F-041/02 [2006-01 A - I R M EP]  
**ICCA** - H01F-001/032 [2006 C F I B H CN]; H01F-041/02 [2006 C - I R M EP]  
**UP** - 2001-09

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**PN** - DE10032515 A1 20010118 [DE10032515]  
**STG** - (A1) Doc. Laid open (First publication)

**TI** - (A1) Thin curved segment magnet is made of a rare earth sinter magnet with a specified density and orientation  
**OTI** - (A1) Bogensegmentmagnet, Ringmagnet und Verfahren zu ihrer Herstellung  
**PA** - (A1) HITACHI METALS LTD (JP)  
**IN** - (A1) ODA KAZUO (JP); TOKORO HISATO (JP); UCHIDA KIMIO (JP); MIKAMOTO TSUKASA (JP)  
**IC** - (A1) H01F-001/053 H01F-007/02 H01F-041/02  
**AP** - DE10032515 20000705 [2000DE-1032515]  
**PR** - JP19035199 19990705 [1999JP-0190351]  
 JP32959099 19991119 [1999JP-0329590]  
**ICAA** - H01F-001/057 [2006-01 A - I R M EP]; H01F-041/02 [2006-01 A - I R M EP]  
**ICCA** - H01F-001/032 [2006 C - I R M EP]; H01F-041/02 [2006 C - I R M EP]  
**EC** - H01F-001/057B8C  
 H01F-041/02B6  
**DT** - Basic  
**UP** - 2001-03

*1 / 1 LEGALI - ©EPO*

**PN** - DE10032515 A1 20010118 [DE10032515]  
**AP** - DE10032515 20000705 [2000DE-1032515]  
**ACTE** - 20050901 DE/8110-A [+] REQUEST FOR EXAMINATION PARAGRAPH 44  
 20070125 DE/8127-A  
 NEW PERSON/NAME/ADDRESS OF THE APPLICANT  
 OWNER: NEOMAX CO., LTD., OSAKA, JP  
**UP** - 2007-04

*3 / 5 PLUSPAT - ©QUESTEL-ORBIT - image*

**PN** - JP2001210508 A 20010803 [JP2001210508]  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**TI** - (A) METHOD OF MANUFACTURING ARC SEGMENT MAGNET, RING MAGNET, AND RARE EARTH SINTERED MAGNET  
**PA** - (A) HITACHI METALS LTD  
**PA0** - (A) HITACHI METALS LTD  
**IN** - (A) ODA KAZUO; TOKORO HISATO; UCHIDA KIMIO; MIKAMOTO TSUKASA  
**IC** - (A) B22F-003/00 B22F-003/02 H01F-001/053 H01F-001/08 H01F-041/02  
**AP** - JP2000196345 20000629 [2000JP-0196345]  
**PR** - JP2000196345 20000629 [2000JP-0196345]  
 JP19035199 19990705 [1999JP-0190351]  
 JP32959099 19991119 [1999JP-0329590]  
**ICAA** - H01F-001/057 [2006-01 A - I R M EP]

**ICCA** - H01F-001/032 [2006 C - I R M EP]  
**EC** - H01F-001/057B8C  
**FI** - B22F3/00 D; B22F3/02 R; H01F1/08 B; H01F1/04 H; H01F41/02 G; B22F5/10  
**FTM** - 4K018 AA27; 4K018 BB04; 4K018 CA02; 4K018 CA04; 4K018 CA07; 4K018 CA33; 4K018 HA04; 4K018 HA08; 4K018 KA45; 5E040 AA04; 5E040 AA19; 5E040 BD01; 5E040 CA01; 5E040 HB06; 5E040 NN01; 5E040 NN06; 5E040 NN12; 5E040 NN13; 5E040 NN15; 5E040 NN17; 5E062 CC02; 5E062 CC03; 5E062 CD04; 5E062 CE04; 5E062 CF01; 5E062 CG01  
**UP** - 2001-40

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**PN** - KR20010015183 A 20010226 [KR20010015183]  
**STG** - (A) Unexamined patent application  
**TI** - (A) THIN CURVED SEGMENT MAGNET MADE OF RARE EARTH SINTER MAGNET WITH SPECIFIED DENSITY AND ORIENTATION  
**PA** - (A) HITACHI METALS LTD  
**IN** - (A) ODA KAZUO; TOKORO HISATO; UCHIDA KIMIO; MIKAMOTO TSUKASA  
**IC** - (A) H01F-001/08  
**LA** - KOREAN (KOR)  
**AP** - KR20000038359 20000705 [2000KR-0038359]  
**PR** - JP19035199 19990705 [1999JP-0190351]  
 JP32959099 19991119 [1999JP-0329590]  
**ICAA** - H01F-001/057 [2006-01 A - I R M EP]; H01F-041/02 [2006-01 A - I R M EP]  
**ICCA** - H01F-001/032 [2006 C - I R M EP]; H01F-041/02 [2006 C - I R M EP]  
**EC** - H01F-001/057B8C  
 H01F-041/02B6  
**UP** - 2006-51

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**PN** - US6312494 B1 20011106 [US6312494]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**TI** - (B1) Arc segment magnet, ring magnet and method for producing such magnets  
**PA** - (B1) HITACHI METALS LTD (US)  
**PA0** - Hitachi Metals, Ltd., Tokyo [JP]  
**IN** - (B1) ODA KAZUO (JP); TOKORO HISATO (JP); UCHIDA KIMIO (JP); MIKAMOTO TSUKASA (JP)  
**IC** - (B1) B22F-003/00  
**AP** - US61047600 20000705 [2000US-0610476]  
**PR** - JP19035199 19990705 [1999JP-0190351]  
 JP32959099 19991119 [1999JP-0329590]  
**ICAA** - H01F-001/057 [2006-01 A - I R M EP]; H01F-041/02 [2006-01 A - I R M EP]  
**ICCA** - H01F-001/032 [2006 C - I R M EP]; H01F-041/02 [2006 C - I R M EP]

**EC** - H01F-001/057B8C  
H01F-041/02B6

**PCL** - ORIGINAL (O) : 075245000; CROSS-REFERENCE (X) : 148100000  
148108000 148301000 148302000 419029000 419033000 419036000  
419039000

**DT** - Corresponding document

**UP** - 2001-46

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**PN** - US6312494 B1 20011106 [US6312494]

**AP** - US61047600 20000705 [2000US-0610476]

**ACTE** - 20001011 US/AS-A  
ASSIGNMENT  
OWNER: HITACHI METALS, LTD. 2-1, SHIBAURA 1-CHOME MINATO-;  
EFFECTIVE DATE: 20000925  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:TOKORO,  
HISATO;UCHIDA, KIMIO;ODA, KAZUO;AND  
OTHERS;REEL/FRAME:011261/0518

20040113 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031105

**UP** - 2004-30

Search statement 3